



Sjöfartsstyrelsen

INFORMATIONSBLAD NR 14/15.8.1995

TYPGODKÄNNANDE AV SLAGVATTENSEPARATORER, FILTRERINGSANLÄGGNINGAR, OLJEHALTSMÄTARE OCH SLAGVATTENSALARM

Den internationella sjöfartsorganisationen IMO:s kommitté för skydd av den marina miljön har genom sin resolution MEPC.60(33) den 30 oktober 1992 utfärdat nya bestämmelser om typgodkännande av slagvattenseparatorer, filtreringsanläggningar, oljehaltsmätare och slagvattensalarm i fartygs maskinrum.

Slagvattenseparatorer, filtreringsanläggningar, oljehaltsmätare och slagvattensalarm som har godkänts enligt IMO:s resolution A.393(X) får inte mera installeras ombord på fartyg efter den 31 december 1995. Anläggningar som typgodkänts enligt resolution A.393 (X) och som installerats före den 31 december 1995 behöver emellertid inte bytas ut mot anläggningar som typgodkänts enligt resolution MEPC.60(33).

Oljehaltsmätare som installeras i tankfartygens anläggningar för behandling av oljehaltigt vatten godkänns även hädanefter enligt IMO:s resolution A.586(14) "Revised Guidelines and Specifications for Oil Monitoring and Control Systems for Oil Tankers".

Förfarandet vid typgodkännande

Ansökan om typgodkännande av ovan nämnda anläggningar riktas till sjöfartsstyrelsen. Ansökningen skall innehålla följande handlingar och specifikationer:

1. En specifikation av de anläggningars effekter och typer som ansökningen gäller.
2. En broschyr över anläggningen.
3. De ritningar som behövs för att visa hur anläggningen fungerar och hur den kan definieras.
4. Testresultaten för maskinrumsanläggningarna, vilka presenteras enligt följande bilagor
 - slagvattenseparatorerna och/eller filtreringsanläggningarna (bilaga 1)
 - slagvattensalarmen och oljehaltsmätarna (bilaga 2).
5. Testresultaten för oljehaltsmätarna och alarmanordningarna på tankfartyg, vilka presenteras enligt bifogade bilaga
 - oljehaltsmätarna och alarmanordningarna (bilaga 3).
6. Kopior av typgodkännandecertifikat som utställts av andra länder, framför allt EU:s medlemsstater.
7. Ett modellexemplar av bruksanvisningen, som tillställs fartyget.

Ansökningen och dess bilagor skall sändas till sjöfartsstyrelsen under adress:

Sjöfartsstyrelsen
Fartygstekniska byrån
Bergmansgatan 1,
PB 158, 00141 Helsingfors

(sjöfartsstyrelsens nya adress
fr.o.m. hösten 1996:
Porkalagatan 5,
PB 171, 00181 Helsingfors).

Typgodkännandet av anläggningen förutsätter inte prov utförda i Finland eller under övervakning av finsk myndighet, men sjöfartsstyrelsen måste kunna försäkra sig om att testen är rätt utförda. Om anläggningen är ny, skall testrapporten tillställas sjöfartsstyrelsen i original eller som bestyrkt kopia. Om tvivel kan uppstå om utförandet av proven eller anläggningens kapacitet, kan sjöfartsstyrelsen begära nya prov i ett laboratorium som den godkännt. I sådana fall skall sjöfartsstyrelsens representant beredas tillfälle att vara med om proven.

För typgodkännandecertifikat uppbärs en avgift, varom stadgas särskilt.

En förteckning över typgodkänd apparatur publiceras i sjöfartsstyrelsens informationsblad. Apparatur som nämns i informationsblad nr 9/15.10.1992 och som godkänts enligt IMO:s resolution A.393(X) får inte installeras ombord på fartyg efter den 31 december 1995. Apparatur som godkänts enligt IMO:s resolution A.586(14) får däremot alltjämt installeras ombord på tankfartyg.

Heikki Valkonen
Chef för sjöfartsavdelningen
sjöfartsråd

Jorma Kämäräinen
Överinspektör

Närmare upplysningar:

Fartygstekniska byrån

Detta informationsblad
ersätter informationsblad:

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APPENDIX

TEST DATA AND RESULTS OF TESTS CONDUCTED ON A FILTERING EQUIPMENT
IN ACCORDANCE WITH PART 1 OF THE ANNEX TO THE
GUIDELINES AND SPECIFICATIONS CONTAINED
IN IMO RESOLUTION MEPC...(33)

Equipment submitted by

Test location

Method of sample analysis

Samples analysed by

Environmental testing of the electrical and electronic sections of the equipment has been carried out in accordance with part 3 of the annex to the Guidelines and Specifications contained in IMO resolution MEPC...(33). The equipment functioned satisfactorily on completion of each test specified on the environmental test protocol.

Manufacturers' recommendations and information concerning the use of cleansing agents

Test oil (A)/(C)*

Relative density	at 15°C
Viscosity	Centistokes at 100°C
	Centistokes at 37.8°C
Flashpoint	°C
Ash content	%
Water content at start of test	%

Test oil (B)

Relative density	at 15°C
Viscosity	Centistokes at 100°C
	Centistokes at 37.8°C
Flashpoint	°C
Ash content	%
Water content at start of test	%

Test water

Relative density	at 15°C
Solid matter present	

Test temperatures

Ambient	°C
Test oil (A)(C)*	°C
Test oil (B)	°C
Test water	°C

Diagram of test rig attached

Diagram of sampling arrangement attached

* Delete as appropriate.

[illegible][illegible]

(taken at the end of final oil phase auto test, paragraph 1.2.14 - Part 1 of the Annex to resolution MEPC.60(33))

(Official stamp or equivalent identification and the date of approval to be placed on all pages of the test protocol.)

W/9146D/EWP

APPENDIX

TEST DATA AND RESULTS OF TESTS CONDUCTED ON AN
OIL CONTENT METER IN ACCORDANCE WITH PART 2 OF
THE ANNEX TO THE GUIDELINES AND SPECIFICATIONS
CONTAINED IN IMO RESOLUTION MEPC...(33)

Oil content meter submitted by

Test location

Method of sample analysis

Samples analysed by

Environmental testing of the electronic section of the oil content meter has been carried out in accordance with part 3 of the annex to the Guidelines and Specifications contained in IMO resolution MEPC...(33). The equipment functioned satisfactorily on completion of each test specified on the environmental test protocol.

Manufacturers' recommendations and information concerning the use of cleansing agents

		READINGS (ppm)			REMARKS
		Indicated	Measured	Grab sample	
CALIBRATION	0	.....	.....	.....
LIGHT DISTILLATE					
FUEL OIL	15	.....	.....	.....
		
		
FULL SCALE		.....	.....	.....	TEST
		.....	.....	.....	WATER TEMPERATURE °C
					RE-ZERO YES/NO*
					RECALIBRATE YES/NO*

RESPONSE TIMES 15 ppm ... seconds

CONTAMINANTS TEST

1 Non-oil particulate matter

Meter reading shift with ppm non-oil particulate contaminants mixed with water and light distillate oil added in oil concentrations of:

-	ppm	... ppm
-	ppm	... ppm
-	ppm	... ppm

COLOUR TEST

2.5 ppm black ink test pass/fail*

* Delete as appropriate

SAMPLE PRESSURE OR FLOW TEST

Meter reading shift at 50% of normal ... ppm

Meter reading shift at 200% of normal ... ppm

Deviations from this test should be
stated if necessary

Meter reading before shut-off ... ppm

Meter reading after start-up
(minimum dry period 8 hours) ... ppm

Damage to meter as follows:

.....
.....
.....
.....

UTILITIES SUPPLY VARIATION TEST

110% voltage effects

90% voltage effects

110% air pressure effects

90% air pressure effects

110% hydraulic pressure effects

90% hydraulic pressure effects

OTHER COMMENTS

.....
.....
.....
.....
.....
.....

CALIBRATION AND ZERO TEST

Calibration drift ... ppm

Zero drift ... ppm

Signed

Date

Official stamp

(Official stamp or equivalent identification and the date of approval to be placed on all pages of the test protocol)

APPENDIX

TEST DATA AND RESULTS OF TESTS
CONDUCTED ON AN OIL CONTENT METER IN ACCORDANCE WITH PART 1
OF THE ANNEX TO THE GUIDELINES AND SPECIFICATIONS
CONTAINED IN IMO RESOLUTION A.586(14)

Oil content meter submitted by

Test location

Method of sample analysis

Samples analysed by

Environmental testing of the electronic section of the oil content meter has been carried out in accordance with part 2 of the Annex to the Guidelines and Specifications contained in IMO resolution A.586(14). The equipment functioned satisfactorily on completion of each test specified on the environmental test protocol.

		READINGS (ppm)			REMARKS
		Indicated	Measured	Grab sample	
CALIBRATION	0	TEST WATER TEMPERATURE °C RE-ZERO YES/NO* RECALIBRATE YES/NO*
	15	.....	.....	.....
	50	.....	.....	.....
	100	.....	.....	.....
	200	.....	.....	.....
	400	.....	.....	.....
	600	.....	.....	.....
	800	.....	.....	.....
	1000	.....	.....	.....
	1000	.....	.....	.....
OIL TYPE RESPONSE TESTS Sahara blend	15	RE-ZERO YES/NO* TIME mins RECALIBRATE YES/NO* TIME mins CLEAN YES/NO* TIME mins
	100	.....	.....	.....
		
		
		
		
		
		
		
		
Arabian light crude	15	RE-ZERO YES/NO* TIME mins RECALIBRATE YES/NO* TIME mins CLEAN YES/NO* TIME mins
	100	.....	.....	.....
		
		
		
		
		
		
		
		

* Delete as appropriate

Res. A.586(14)

READINGS (ppm)				REMARKS	
	Indicated	Measured	Grab sample		
Nigerian medium crude					
	15				
	100				
	90% M.F.S.V. =				
	RECORDED ZERO			RE-ZERO TIME RECALIBRATE TIME CLEAN TIME	YES/NO* mins YES/NO* mins YES/NO* mins
Bachaquero 17 crude					
	15				
	100				
	90% M.F.S.V. =				
	RECORDED ZERO			RE-ZERO TIME RECALIBRATE TIME CLEAN TIME	YES/NO* mins YES/NO* mins YES/NO* mins
Minas crude					
	15				
	100				
	90% M.F.S.V. =				
	RECORDED ZERO			RE-ZERO TIME RECALIBRATE TIME CLEAN TIME	YES/NO* mins YES/NO* mins YES/NO* mins

* Delete as appropriate

		READINGS (ppm)			REMARKS	
		Indicated	Measured	Grab sample		
Residual fuel	15	RE-ZERO TIME RECALIBRATE TIME CLEAN TIME	YES/NO* mins YES/NO* mins YES/NO* mins
	100	.....	.....	.....
	90% M.F.S.V. =	.....	.....	.....
	RECORDED ZERO	.....	.....	.....
Automotive gasoline	15	RE-ZERO TIME RECALIBRATE TIME CLEAN TIME	YES/NO* mins YES/NO* mins YES/NO* mins
	100	.....	.....	.....
	90% M.F.S.V. =	.....	.....	.....
	RECORDED ZERO	.....	.....	.....

* Delete as appropriate

READINGS (ppm)			REMARKS	
Indicated	Measured	Grab sample		
Kerosene	15 100 90% M.F.S.V. = RECORDED ZERO			
Light diesel fuel	15 100 90% M.F.S.V. = RECORDED ZERO			

Note: If alternative oils covering the same range of properties as the crude oils listed are used, these should be substituted where applicable.

* Delete as appropriate

OIL-LIKE NOXIOUS LIQUID SUBSTANCES, OTHER PRODUCTS OR APPLICATIONS*

READINGS (ppm)			REMARKS
Indicated	Measured	Grab sample	
Name of product			
..... 15	
..... 100	
90% M.F.S.V. =	
RECORDED ZERO	
			RE-ZERO TIME YES/NO** mins
			RECALIBRATE TIME YES/NO** mins
			CLEAN TIME YES/NO** mins
Name of product			
..... 15	
..... 100	
90% M.F.S.V. =	
RECORDED ZERO	
			RE-ZERO TIME YES/NO** mins
			RECALIBRATE TIME YES/NO** mins
			CLEAN TIME YES/NO** mins

* This page should be included in the certificate only if the oil content meter has been tested against category C or D oil-like noxious liquid substances.

** Delete as appropriate.

RESPONSE TIMES

First detectable reading		seconds
	63 ppm	..... ①
Stabilized maximum reading	..... ppm	.....
First detectable drop		.....
	37 ppm	..... ②
Stabilized minimum reading	..... ppm	.....
RESPONSE TIME =	$\frac{① + ②}{2}$	=

OIL FOULING AND CALIBRATION SHIFT

10% oil concentration test		
First detectable response		.....
	100 ppm	.....
Off scale on highest range		.....
On scale on highest range		.....
	100 ppm	.....
Minimum reading	..... ppm	.....
Further cleaning required YES/NO* (State extent)		
Time mins		
100% oil concentration test		seconds
First detectable response		.....
	100 ppm	.....
Off scale on highest range		.....
On scale on highest range		.....
	100 ppm	.....
Minimum reading	..... ppm	.....
Further cleaning required YES/NO* (State extent)		
Time mins		
Calibration shift	..... ppm	

* Delete as appropriate.

CONTAMINANTS TEST

Meter reading shift with 300 ppm non-oil contaminants mixed with water and Arabian light crude oil added in oil concentrations of:

- 15 ppm ppm
- 100 ppm ppm
- 300 ppm ppm

Meter reading shift with 1% air entrained in water and Arabian light crude oil added in concentrations of:

- 15 ppm ppm
- 100 ppm ppm
- 300 ppm ppm

OIL PARTICLE SIZE TEST

Meter reading shift ppm

TEMPERATURE TEST

Calibration test water temperature °C

Meter reading shift at 10°C ppm

Meter reading shift at 65°C ppm

SAMPLE PRESSURE OR FLOW TEST

Meter reading shift at 50% of normal ppm

Meter reading shift at 200% of normal ppm

Deviations from this test should be stated if necessary

Meter reading before shutoff ppm

Meter reading after start-up
(minimum dry period 8 hours) ppm

Damage to meter as follows:

* Delete as appropriate.

Res. A.586(14)

UTILITIES SUPPLY VARIATION TEST

- 110% voltage effects
- 90% volatage effects
- 110% air pressure effects
- 90% air pressure effects
- 110% hydraulic pressure effects
- 90% hydraulic pressure effects

OTHER COMMENTS

CALIBRATION AND ZERO TEST

- Calibration drift ppm
- Zero drift ppm

SHUTDOWN AND RE-ENERGIZATION TEST

- Span drift ppm
- Zero drift ppm
- Time for warm-up and calibration mins

SignedDateOfficial stamp

(Official stamp or equivalent identification and the date of approval to be placed on all pages of the test protocol)

